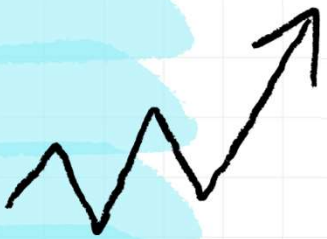
ELECTIVES



ELECTIVES

PE

- Weight Training (Beginning)
- Weight Training (Intermediate)
- Weight Training (Proficient)
- Weight Training (Advanced)
- Lifetime Sports I
- Lifetime Sports II

FOREIGN LANGUAGES

- Spanish I
- Spanish II
- Spanish III

COMPUTER SCIENCE

- COMPTIA IT Fundamentals
- Computer Science I
- Computer Science II
- AP Computer Science Principles
- AP Computer Science A

CYBERSECURITY

- AP Cybersecurity
- PLTW Cybersecurity
- Cybersecurity I
- Cybersecurity II
- Network Administration I
- Network Administration II

ARTIFICIAL INTELLIGENCE

- Microsoft Excel
- Intro to Data Science
- SAS Programming
- Intro to Artificial Intelligence
- Artificial Intelligence
- Python I
- Python II

OTHER ELECTIVES

- Career Management
- Creative Writing

PE ELECTIVES

- WEIGHT TRAINING (BEGINNING)
- WEIGHT TRAINING (INTERMEDIATE)
- WEIGHT TRAINING (PROFICIENT)
- WEIGHT TRAINING (ADVANCED)
- LIFETIME SPORTS I
- LIFETIME SPORTS II

WEIGHT TRAINING (BEGINNING)

THIS COURSE IS DESIGNED FOR THE NOVICE WEIGHT TRAINING STUDENT. IT INVOLVES INTRODUCTORY TECHNIQUES OF WEIGHT TRAINING AND CARDIOVASCULAR CONDITIONING, SAFETY PRECAUTIONS, INJURY PREVENTION, AND OTHER METHODS OF WEIGHT MANAGEMENT. MAJOR FOCUSES ARE GENERAL MUSCLE TONING AND ACHIEVING TOTAL FITNESS. THE DEVELOPMENT OF A PERSONAL FITNESS PROGRAM IS A PART OF THIS COURSE.

PREREQUISITE:
PE

WEIGHT TRAINING (INTERMEDIATE)

THIS COURSE IS DESIGNED TO IMPROVE MUSCULAR STRENGTH AND POWER THROUGH PROGRESSIVE WEIGHT TRAINING TECHNIQUES. MORE ADVANCED COURSEWORK ON THE PRINCIPLES OF CARDIOVASCULAR FITNESS AND STRENGTH DEVELOPMENT IS A PART OF THIS COURSE. THE COURSE INCLUDES TECHNIQUES AND SKILLS, AS WELL AS ALTERNATIVE STRATEGIES, FOR DEVELOPING OVERALL STRENGTH AND CONDITIONING. THE REFINEMENT OF THE STUDENT'S PERSONAL FITNESS PLAN IS INCLUDED IN THIS COURSE.



PREREQUISITE:
WEIGHT TRAINING (BEGINNING)

WEIGHT TRAINING (ADVANCED)

THIS COURSE IS DESIGNED FOR HIGHLY MOTIVATED STUDENTS WHO HAVE PROGRESSED THROUGH THE WEIGHT LIFTING CURRICULUM AND HAVE A DESIRE TO PURSUE THIS AS A PROFESSION, EITHER AS A COACH, FITNESS INSTRUCTOR, OR TEACHER. COURSEWORK EXPECTATIONS INCLUDE
THE BASIC PRINCIPLES OF EXERCISE PRESCRIPTION, SPORTS NUTRITION, EXERCISE TESTING AND EVALUATION, CARDIOVASCULAR FITNESS, AND STRENGTH DEVELOPMENT

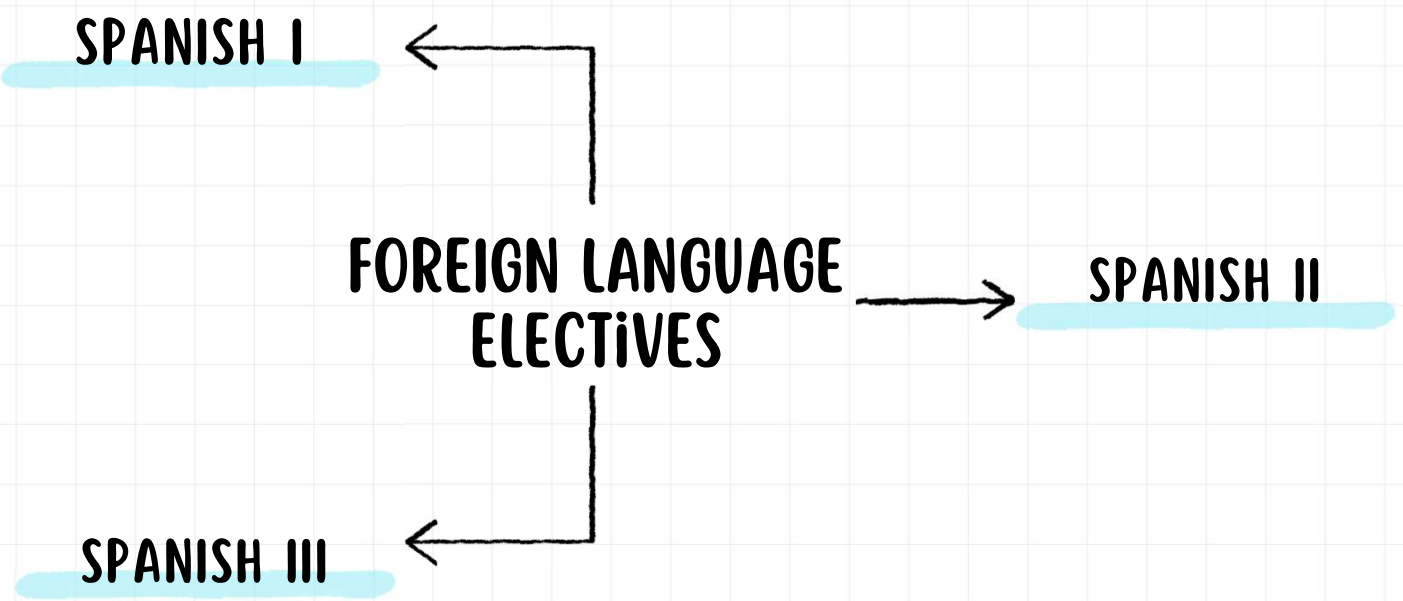
PREREQUISITE:
WEIGHT TRAINING (BEGINNING)
&
WEIGHT TRAINING (INTERMEDIATE)

WEIGHT TRAINING (PROFICIENT)

THIS COURSE IS FOR STUDENTS INTERESTED IN TRYING SOME ADVANCED LIFTING AND EXERCISE TECHNIQUES, WHICH MAY INCLUDE OLYMPIC LIFTS, PLYOMETRIC TRAINING, AND AGILITY AND SPEED WORKOUTS. COURSEWORK MAY INCLUDE THE BASIC PRINCIPLES OF EXERCISE PRESCRIPTION, SPORTS NUTRITION, EXERCISE TESTING AND EVALUATION,
CARDIOVASCULAR FITNESS, AND STRENGTH DEVELOPMENT



PREREQUISITE:
WEIGHT TRAINING (BEGINNING),
WEIGHT TRAINING (INTERMEDIATE),
& WEIGHT TRAINING (ADVANCED)


SPANISH I
FOREIGN LANGUAGE ELECTIVES
SPANISH II
SPANISH III

SPANISH 1

THIS COURSE WILL HELP STUDENTS DEVELOP LISTENING, SPEAKING, READING AND WRITING IN THE SPANISH LANGUAGE. LISTENING AND SPEAKING PRECEDE READING, AND WRITING. STUDENTS ARE INTRODUCED TO SPANISH CULTURE, CUSTOMS, AND GEOGRAPHY

SPANISH II

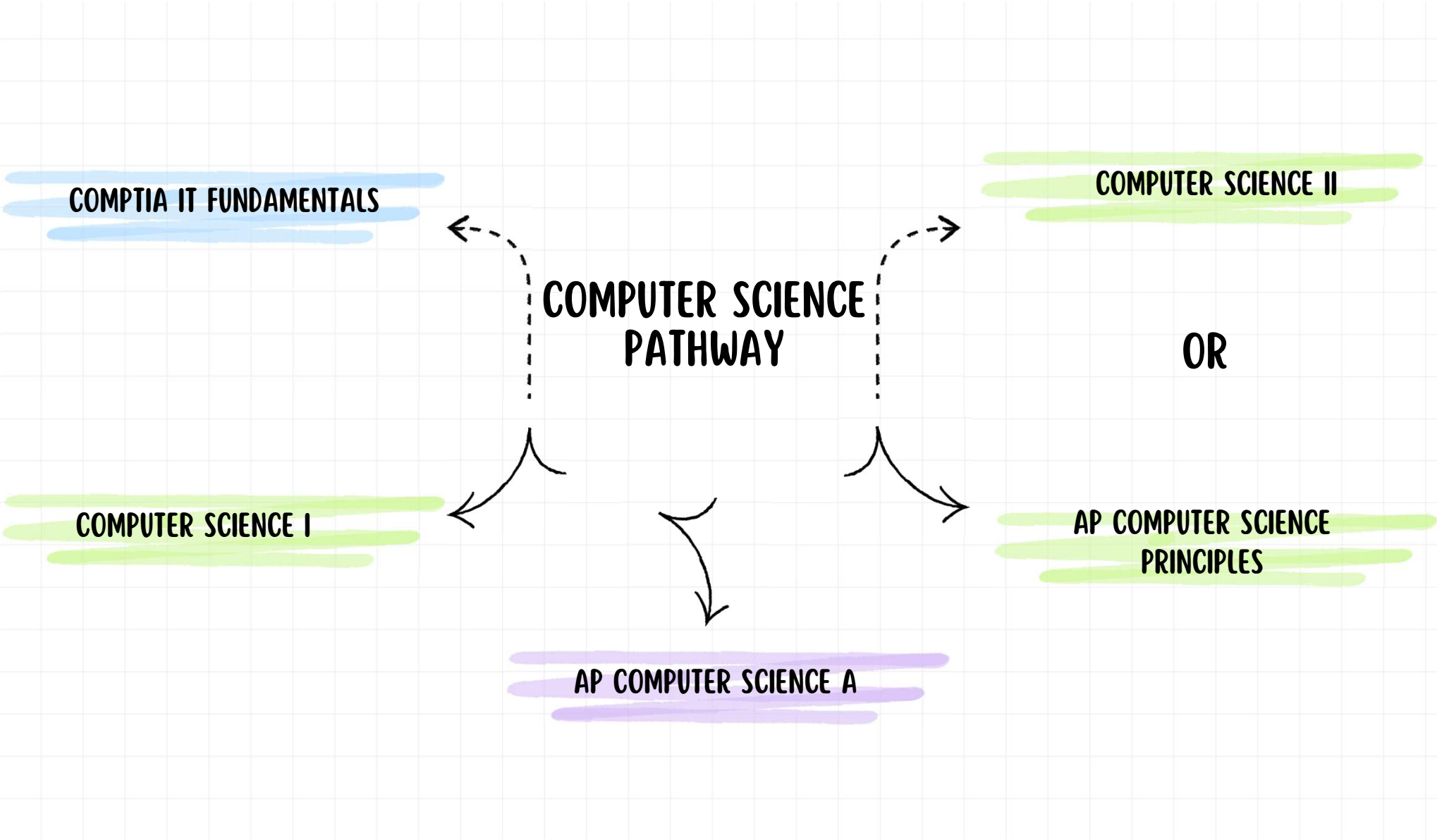
THIS COURSE GIVES A GREATER EMPHASIS TO READING AND WRITING SKILLS WITH THE MAJOR GOAL FOR STUDENTS BEING TO COMMUNICATE THEIR IDEAS IN AN ORAL/WRITTEN WAY. THE DEVELOPMENT OF CULTURAL
UNDERSTANDING WILL CONTINUE.

PREREQUISITE:
SPANISH I

HONORS SPANISH III

THIS COURSE STRESSES THE INCREASED INTEGRATION OF LISTENING, SPEAKING, READING, AND WRITING. THE GOAL IS EXCLUSIVE USE OF SPANISH IN THE CLASSROOM. LITERARY SELECTIONS ARE USED FOR READING MATERIAL. THE CULTURAL FOCUS INCLUDES IMPORTANT EVENTS
IN SPANISH HISTORY

PREREQUISITE:
SPANISH I & SPANISH II


COMPTIA IT FUNDAMENTALS
COMPUTER SCIENCE PATHWAY
COMPUTER SCIENCE II
OR
COMPUTER SCIENCE I
AP COMPUTER SCIENCE PRINCIPLES
AP COMPUTER SCIENCE A

COMPTIA IT FUNDAMENTALS

THIS COURSE IS DESIGNED FOR STUDENTS OR PROFESSIONALS TO BUILD FOUNDATIONAL KNOWLEDGE IN COMPUTER HARDWARE, SOFTWARE, SECURITY, NETWORKING, AND TROUBLESHOOTING. IT COVERS ESSENTIAL DIGITAL LITERACY, OPERATING SYSTEMS, DATABASE BASICS, AND WEB TECHNOLOGIES, PREPARING INDIVIDUALS FOR ENTRY-LEVEL IT ROLES OR FURTHER CERTIFICATIONS.

COMPUTER SCIENCE 1

THIS COURSE IS AN INTRODUCTORY COURSE INTENDED TO FAMILIARIZE STUDENTS WITH THE GENERAL CONCEPTS AND THINKING PRACTICES OF COMPUTING, COMPUTER SCIENCE, AND INFORMATION SCIENCE. STUDENTS WILL LEARN COMPUTING CONCEPTS THROUGH AUTHENTIC VISUAL AND INTERACTIVE PROJECTS USING VISUAL PROGRAMMING LANGUAGES.

COMPUTER SCIENCE II

THIS COURSE IN COMPUTER SCIENCE BUILDS ON THE FOUNDATION OF COMPUTER SCIENCE PRINCIPLES I. THIS COURSE OFFERS A MORE IN-DEPTH EXAMINATION OF THE "BIG CS IDEAS," INCLUDING A BROAD RANGE OF FOUNDATIONAL TOPICS, SUCH AS PROGRAMMING, ALGORITHMS, THE INTERNET, BIG DATA, DIGITAL PRIVACY AND SECURITY, AND THE SOCIETAL IMPACTS OF COMPUTING.

PREREQUISITE:
COMPUTER SCIENCE I

AP COMPUTER SCIENCE PRINCIPLES

THIS COURSE IS DESIGNED TO INTRODUCE STUDENTS TO THE CREATIVE ASPECTS OF PROGRAMMING, ABSTRACTIONS, ALGORITHMS, LARGE DATA SETS, THE INTERNET, CYBERSECURITY CONCERNS, AND COMPUTING IMPACTS.





PREREQUISITE:
COMPUTER SCIENCE I

AP COMPUTER SCIENCE A

THIS COURSE INTRODUCES STUDENTS TO THE RANGE OF THE FIELD OF COMPUTER SCIENCE. IN THIS COURSE, STUDENTS WILL LEARN TO DESIGN AND EVALUATE SOLUTIONS AND TO APPLY COMPUTER SCIENCE TO SOLVE PROBLEMS THROUGH THE DEVELOPMENT OF ALGORITHMS AND PROGRAMS. THEY WILL INCORPORATE ABSTRACTION INTO PROGRAMS AND USE DATA TO DISCOVER NEW KNOWLEDGE.

PREREQUISITE:
COMPUTER SCIENCE 1 &
AP COMPUTER SCIENCE
PRINCIPLES

PLTW CYBERSECURITY

AP CYBERSECURITY

NETWORK ADMINISTRATION I

NETWORK ADMINISTRATION II

CYBERSECURITY PATHWAY

CYBERSECURITY I

CYBERSECURITY II

PLTW CYBERSECURITY

THIS COURSE EXPOSES HIGH SCHOOL STUDENTS TO THE EVER-GROWING AND FAR-REACHING FIELD OF CYBERSECURITY. STUDENTS ACCOMPLISH THIS THROUGH PROBLEM-BASED LEARNING, WHERE STUDENTS ROLE-PLAY TRAIN AS CYBERSECURITY EXPERTS. STUDENTS USE A SIMULATED VIRTUAL TRAINING ENVIRONMENT CALLED A VIRTUAL MACHINE TO SOLVE REAL-WORLD PROBLEMS FOR COMPANIES AND INDIVIDUALS USINGS CYBER SKILLS AND TOOLS LEARNED IN THE COURSE

AP CYBERSECURITY

THIS COURSE PREPARES STUDENTS FOR BOTH COLLEGIATE AND CAREER PATHWAYS IN THE RAPIDLY GROWING FIELD OF CYBERSECURITY. THE COURSE INTRODUCES STUDENTS TO ESSENTIAL PRINCIPLES, PRACTICES, AND PROFESSIONAL NORMS USED TO PROTECT SYSTEMS, NETWORKS, APPLICATIONS, AND DATA.

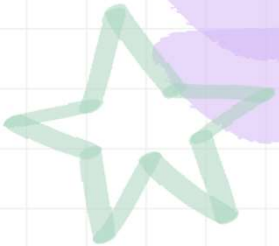


PREREQUISITE:
COMPUTER SCIENCE I &
COMPUTER SCIENCE II OR AP
COMPUTER SCIENCE PRINCIPLES

NETWORK ADMINISTRATION I

THIS COURSE IS DESIGNED TO PROVIDE STUDENTS WITH A SOLID FOUNDATION IN NETWORK SECURITY. THE EXPERIENCE INCLUDES STUDENTS FOCUSING ON THREATS, ATTACKS AND VULNERABILITIES, TECHNOLOGIES AND TOOLS, AND ARCHITECTURE AND DESIGN.



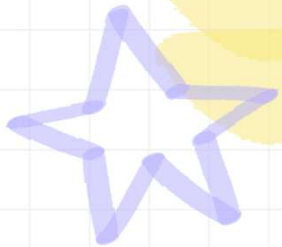


PREREQUISITE:
IT FUNDAMENTALS

NETWORK ADMINISTRATION II

THIS COURSE IS DESIGNED TO PREPARE STUDENTS ARE PREPARED WITH THE SKILLS AND KNOWLEDGE TO INSTALL, CONFIGURE, AND TROUBLESHOOT COMPUTER NETWORKS. THE EXPERIENCE INCLUDES STUDENTS FOCUSING ON THE IDENTIFYING AND ACCESSING MANAGEMENT, RISK MANAGEMENT, AND CRYPTOGRAPHY AND PKI.





PREREQUISITE:
NETWORK ADMINISTRATION I

CYBERSECURITY 1

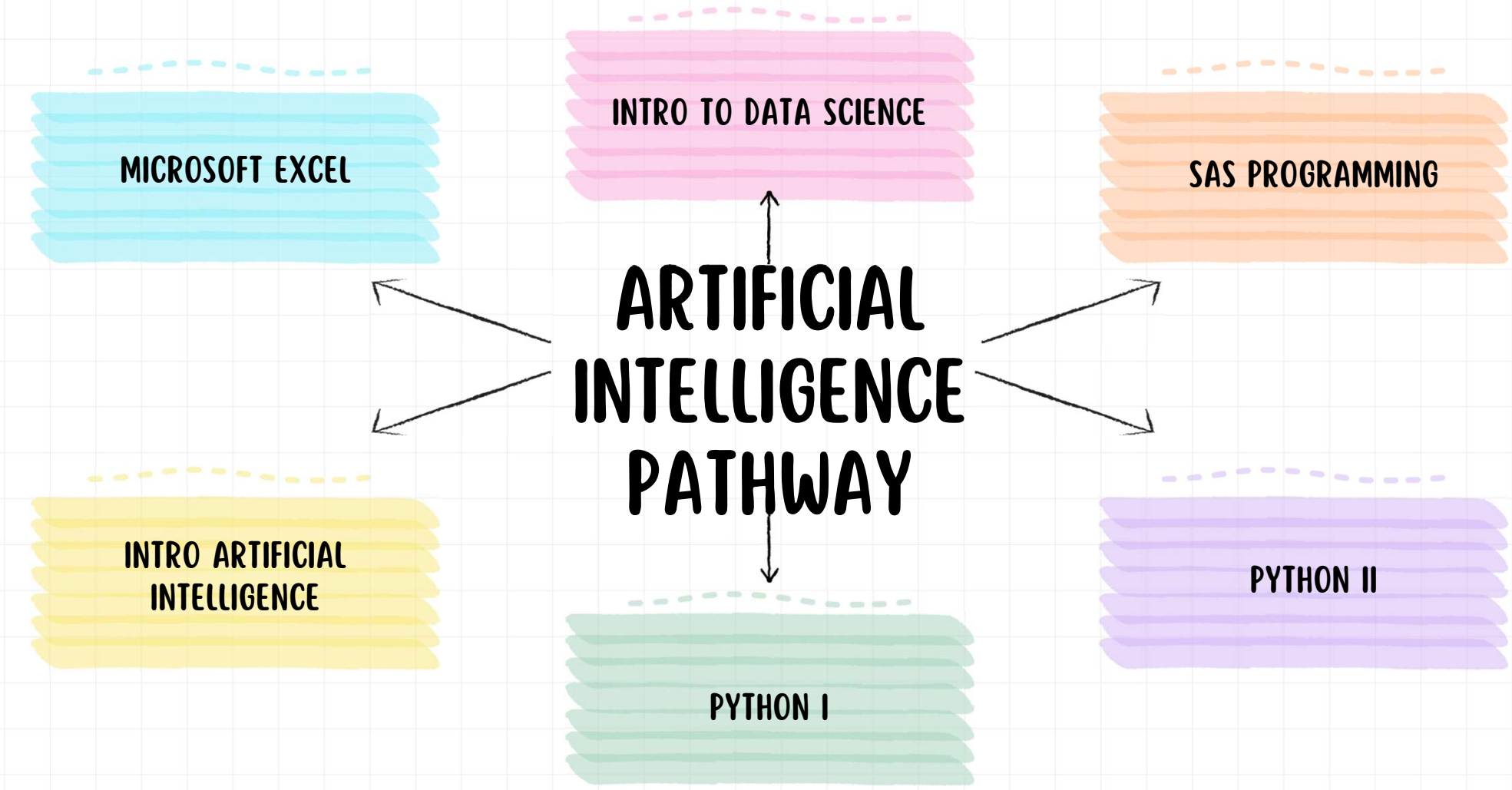
THIS COURSE IS DESIGNED TO PROVIDE STUDENTS WITH A SOLID FOUNDATION IN CYBERSECURITY. THE EXPERIENCE INCLUDES STUDENTS FOCUSING ON THREATS, ATTACKS, AND VULNERABILITIES, TECHNOLOGIES AND TOOLS, AND ARCHITECTURE AND DESIGN.

PREREQUISITE:
NETWORK ADMINISTRATION 1

CYBERSECURITY II

THIS COURSE IS DESIGNED TO PROVIDE STUDENTS WITH A SOLID FOUNDATION IN NETWORK SECURITY. THE EXPERIENCE INCLUDES STUDENTS FOCUSING ON THREATS, ATTACKS AND VULNERABILITIES, TECHNOLOGIES AND TOOLS, AND ARCHITECTURE AND DESIGN. THIS COURSE INTRODUCES THE COMPONENTS OF A COMPUTER NETWORK AND THE CONCEPT AND ROLE OF COMMUNICATION PROTOCOLS.

PREREQUISITE:
CYBERSECURITY I


ARTIFICIAL INTELLIGENCE PATHWAY
INTRO TO DATA SCIENCE
MICROSOFT EXCEL
SAS PROGRAMMING
INTRO ARTIFICIAL INTELLIGENCE
PYTHON II
PYTHON I

MICROSOFT EXCEL

THIS COURSE IS DESIGNED TO HELP YOU USE THE NEWEST VERSION OF MICROSOFT EXCEL INTERFACE, COMMANDS, AND FEATURES TO PRESENT, ANALYZE, AND MANIPULATE VARIOUS TYPES OF DATA. STUDENTS WILL LEARN TO MANAGE WORKBOOKS AS WELL AS HOW TO MANAGE, MANIPULATE, AND FORMAT DATA.

INTRO TO DATA SCIENCE

THIS COURSE IS DESIGNED FOR STUDENTS TO LEARN TO UNDERSTAND, ASK QUESTIONS, AND REPRESENT DATA THROUGH PROJECT-BASED UNITS. THE UNITS WILL GIVE STUDENTS OPPORTUNITIES TO BE DATA EXPLORERS THROUGH ACTIVE ENGAGEMENT, DEVELOPING THEIR UNDERSTANDING OF DATA ANALYSIS, SAMPLING, CORRELATION/CAUSATION, BIAS AND UNCERTAINTY, MODELING WITH DATA, MAKING AND EVALUATING DATA-BASED ARGUMENTS, AND THE IMPORTANCE OF DATA IN SOCIETY.



PREREQUISITE:
MICROSOFT EXCEL

INTRO ARTIFICIAL INTELLIGENCE

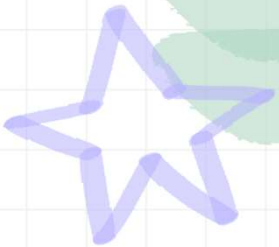
THIS COURSE EXPLORES THE FOUNDATIONS OF ARTIFICIAL INTELLIGENCE IN SOCIETY AND THE WORKPLACE, INCLUDING PROGRAMMING, DATA SCIENCE, MATHEMATICAL REASONING, AND REAL-WORLD APPLICATIONS OF ARTIFICIAL INTELLIGENCE. STUDENTS WILL LEARN THE FOUNDATIONAL SKILLS TO UNDERSTAND HOW TO INTERACT AND DEVELOP ARTIFICIAL INTELLIGENCE SOLUTIONS IN VARIOUS SETTINGS. ENGLISH, LANGUAGE ARTS, MATHEMATICS, AND SCIENCE ARE REINFORCED.

PREREQUISITE:
INTRO TO DATA SCIENCE

PYTHON 1

THIS COURSE IS DESIGNED TO INTRODUCE PYTHON AS A BEGINNING COURSE (NOT INTENDED FOR EXPERIENCED PROGRAMMERS). THE COURSE IS DESIGNED FOR STUDENTS TO LEARN AND PRACTICE CODING IN AN ONLINE ENVIRONMENT THAT REQUIRES ONLY A MODERN WEB BROWSER AND INTERNET CONNECTION.





PREREQUISITE:
COMPUTER SCIENCE 1

PYTHON II

THIS COURSE WILL PREPARE STUDENTS FOR JOBS AND CAREERS CONNECTED WITH WIDELY UNDERSTOOD SOFTWARE DEVELOPMENT, WHICH INCLUDES NOT ONLY CREATING THE CODE ITSELF AS A JUNIOR DEVELOPER, BUT ALSO COMPUTER SYSTEMS DESIGN AND SOFTWARE TESTING. STUDENTS WILL BE GUIDED TO A LEVEL OF PYTHON PROGRAMMING KNOWLEDGE THAT WILL ALLOW THEM TO DESIGN, WRITE, DEBUG, AND RUN PROGRAMS ENCODED IN THE PYTHON LANGUAGE, AND TO UNDERSTAND THE BASIC CONCEPTS OF SOFTWARE DEVELOPMENT TECHNOLOGY.

PREREQUISITE:
PYTHON I

OTHER ELECTIVES

NO PREREQUISITE NEEDED

Career Management

Creative Writing I

CAREER MANAGEMENT

THIS COURSE FOCUSES ON LEADERSHIP, CAREER DEVELOPMENT AND MANAGEMENT, ESSENTIAL EMPLOYABILITY SKILLS, AND CAREER EXPLORATION THROUGH HANDS-ON EXPERIENCES. DEVELOP AN UNDERSTANDING OF PERSONAL LEARNING STYLES, SPEAKING SKILLS DEVELOPMENT, AND TEAM MANAGEMENT SKILLS.

CREATIVE WRITING 1

THIS COURSE FOCUSES ON A STUDY OF VARIOUS FORMS AND GENRES OF PROSE AND POETRY THAT WILL SERVE AS MODELS THROUGH ANALYSIS, APPLICATION, AND IMITATION. COMPOSITION EXERCISES WILL REFLECT AN UNDERSTANDING OF STUDIED FORMS AND AN APPLICATION OF CREATIVE TECHNIQUES.

ELECTIVES

